



## SAFETY DATA SHEET 1167

### IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART

#### SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	IKO Millennium Adhesive PG-1 Pump Grade Two-Part – Part 1 of 2
TRADE NAME	Foamable Adhesive
PRODUCT NUMBER	1AD0002
CHEMICAL FAMILY	Mixture
PRODUCT USE	Adhesive
MANUFACTURER/SUPPLIER	BramCal Production Ltd. 305 Rutherford Road Brampton, Ontario L6W 3R5
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

#### SECTION 2 – HAZARD IDENTIFICATION

##### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD DANGER

SYMBOL(S)



CLASSIFICATION

Acute Toxicity – Category 4  
Eye Irritation – Category 2A  
Respiratory Sensitization – Category 1  
Skin Irritation – Category 2  
Skin Sensitization – Category 1  
Specific Target Organ Toxicity (repeated exposure) – Category 2  
Specific Target Organ Toxicity (single exposure) – Category 3

HAZARD STATEMENTS

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.



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**PRECAUTIONARY STATEMENTS**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves / eye protection / face protection.  
 P285 [In case of inadequate ventilation] wear respiratory protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P321 Specific treatment (see on this label).  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P362 Take off contaminated clothing and wash it before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P403 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**NFPA**

Health: 2  
 Flammability: 1  
 Instability: 1

**HMIS**

Health: 2  
 Flammability: 1  
 Physical Hazards: 1

**SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS**

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
Diphenylmethane diisocyanate, isomers and homologues	50-100	9016-87-9
4,4'-methylenediphenyl diisocyanate	25-50	101-68-8
methylenediphenyl diisocyanate	2.5-10	26447-40-5

**ADDITIONAL INFORMATION:**

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-spray able products is highly unlikely.



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#### SECTION 4 – FIRST AID

INHALATION	For overexposure, remove to fresh air and seek medical attention. In case of unconsciousness place patient stably in side position for transportation. Call a doctor immediately.
INGESTION	Rinse out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical treatment.
SKIN CONTACT	If skin becomes irritated seek medical attention. Immediately wash with water and soap and rinse thoroughly.
EYE CONTACT	Rinse opened eye for 20 minutes under running water. Call a doctor immediately.
ACUTE AND CHRONIC SYMPTOMS	Refer to section 11, Toxicological Information.
MEDICAL ATTENTION	Treat symptomatically. Exposure may aggravate pre-existing skin or respiratory disorders.

#### SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray. Do not use direct water stream.
FIRE FIGHTING	Use firefighting measures that suit the environment. Do not use direct water stream. Product reacts with water. Reaction may produce heat and/or gases. Container may rupture from gas generation in a fire situation. This reaction may be violent.
FLAMMABILITY	No information available.
PROPERTIES:	
FLASH POINT	220°C (428°F)
FLAMMABLE LIMITS IN AIR	Lower flammability limit (% vol): 0.4 Upper flammability limit (% vol): 6.7
AUTO IGNITION TEMPERATURE	> 482°F
SPECIAL PPE FOR FIRE-FIGHTERS	Protective clothing and respiratory protective device.



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#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES

Keep away from ignition sources. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.

Protective action criteria for chemicals:

PAC-1:		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	0.15 mg/m <sup>3</sup>
101-68-8	4,4'-methylene diphenyl diisocyanate	0.45 mg/m <sup>3</sup>
26447-40-5	Methylene diphenyl diisocyanate	29 mg/m <sup>3</sup>

PAC-2:		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	3.6 mg/m <sup>3</sup>
101-68-8	4,4'-methylenediphenyl diisocyanate	15 mg/m <sup>3</sup>
26447-40-5	Methylene diphenyl diisocyanate	40 mg/m <sup>3</sup>

PAC-3:		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	22 mg/m <sup>3</sup>
101-68-8	4,4'-methylene diphenyl diisocyanate	55 mg/m <sup>3</sup>
26447-40-5	Methylene diphenyl diisocyanate	240 mg/m <sup>3</sup>

##### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers/ surface or ground water.

##### SPILL MANAGEMENT

Cover spilled material with neutralization solution (see below) and mix. Wait 15 minutes. Collect material in open head metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations.

Neutralizing solutions:

1. A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
2. A mixture of 80% water, 20% non-ionic surfactant. Apply solution. Wait 15 minutes. Collect in open-head container. Re-apply until surface is decontaminated. Apply drum lid but DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to escape. Secure drum lid.

#### SECTION 7 - HANDLING AND STORAGE

##### HANDLING PROCEDURE

Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Prevent formation of aerosols.



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Wear personal protective equipment described in section 8, Exposure Control and Personal Protection.

### STORAGE PRECAUTIONS

Keep containers tightly closed when not in use. Protect from atmospheric moisture. Keep away from open flames and high temperatures. Storage Temperature: 32°F-90°F. Keep receptacle tightly sealed.

## SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS				
	ALBERTA	ONTARIO	BRITISH COLUMBIA	OSHA	ACGIH
Diphenylmethane diisocyanate, isomers and homologues	No information available.				
4,4'-methylene diphenyl diisocyanate	TWA : 0.005 ppm	TWA : 0.005 ppm Ceiling : 0.02 ppm	TWA : 0.005 ppm Ceiling : 0.01 ppm	Ceiling: 0.2 mg/m <sup>3</sup>	TWA : 0.05 mg/m <sup>3</sup> Ceiling : 0.2 mg/m <sup>3</sup>
Methylene diphenyl diisocyanate	No information available.				

### ENGINEERING MEASURES

Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT:

#### RESPIRATORY PROTECTION

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

#### SKIN AND BODY PROTECTION

Apron. Protective work clothing.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Chloroprene rubber (CR), Nitrile rubber (NBR), Butyl rubber (BR). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has



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to be observed.

**EYE PROTECTION** Face Shield. Safety glasses with side shields. Tightly sealed goggles.

**HYGIENE MEASURES** Keep away from food, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**OTHER CONTROLS** No information available.

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Dark amber liquid
ODOR	Characteristic
ODOR THRESHOLD	No information available.
PH	No information available.
MELTING POINT/FREEZING POINT	No information available.
INITIAL BOILING POINT AND BOILING RANGE	200°C (392°F)
FLASH POINT	220°C (428°F)
EVAPORATION RATE	No information available.
FLAMMABILITY	No information available.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower flammability limit (% vol): 0.4 Upper flammability limit (% vol): 6.7
VAPOR PRESSURE	0 mm Hg
VAPOR DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY(IES)	Not miscible or difficult to mix.
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available.
AUTO-IGNITION TEMPERATURE	> 482°F
IGNITION TEMPERATURE	400°C (752°F)



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SPECIFIC GRAVITY 1.22 g/cm<sup>3</sup> (10.181 lbs/gal) at 20°C (68°F)  
 VISCOSITY 200 mPas at 20°C (68°F)

### SECTION 10 – STABILITY AND REACTIVITY

#### REACTIVITY:

CHEMICAL STABILITY No information available.

POSSIBILITY OF HAZARDOUS REACTIONS No information available.

CONDITIONS TO AVOID Exposure to high temperatures. Moisture

INCOMPATIBLE MATERIALS Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols. Reacts with water forming carbon dioxide-may rupture sealed containers if contaminated with water. May produce violent reactions with bases and numerous organic substances including alcohols and amines.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanic acid, other undetermined compounds.

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### ACUTE/CHRONIC TOXICITY

LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION		
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2200 mg/kg (mouse)

Repeated or prolonged exposure to MDI may result in isocyanate sensitization (chemical asthma) in some individuals, causing them to react to isocyanate exposure at concentrations below the established exposure limits. Symptoms include chest tightness, wheezing, coughing, and shortness of breath. Effects can be delayed. Overexposure can cause lung damage, including decreased lung function. Prolonged or repeated skin contact may cause irritation leading to dermatitis. Skin sensitization may also occur. Lung injury has been observed in laboratory animals after repeated excessive exposure to MDI/polymeric MDI aerosol droplets. Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/polymeric MDI (6 mg/m) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects.

This product is harmful by inhalation, when in contact with the skin and if it is swallowed. This product may cause sensitization by



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inhalation and skin contact. Repeated inhalation of vapors may cause an allergic respiratory response, the onset of which may be delayed several hours after exposure. This product is irritating to the eyes. Symptoms include itching, burning, redness and tearing. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Exposure may aggravate pre-existing skin or respiratory disorders.

PRIMARY ROUTE OF EXPOSURE

Skin

HEALTH EFFECTS:

EYES Irritating effect.

SKIN Sensitization possible through skin contact. Irritant to skin and mucous membranes.

INHALATION Sensitization possible through inhalation.

INGESTION No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE No information available.

CARCINOGENICITY

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	Class 3
101-68-8	4,4'-methylenediphenyl diisocyanate	Class 3

NTP (NATIONAL TOXICOLOGY PROGRAM)	
None of the ingredients are listed	

OSHA-CA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION)	
None of the ingredients are listed	

REPRODUCTIVE TOXICITY:

DEVELOPMENT OF OFFSPRING No information available.





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SEXUAL FUNCTION AND FERTILITY No information available.

GERM CELL MUTAGENICITY No information available.

#### SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY No information available.

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available.

BIOACCUMULATION POTENTIAL No information available.

GENERAL NOTES At present, there are no ecotoxicological assessments.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.

#### SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:  
DOT Not regulated  
ADN, IMDG, LATA Not regulated

UN PROPER SHIPPING NAME:  
DOT Not regulated  
ADN, IMDG, LATA Not regulated

TRANSPORT HAZARD CLASS(ES):  
DOT Not regulated  
ADN, IMDG, LATA CLASS Not regulated

PACKING GROUP:  
DOT Not regulated



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IMDG, LATA	Not regulated
ENVIRONMENTAL HAZARD	Not applicable
SPECIAL PRECAUTIONS FOR USERS	Not applicable
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not applicable
TRANSPORT/ADDITIONAL INFORMATION	MDI (CAS 101-68-8) exhibits a CERCLA RQ equal to 5,000 pounds. Quantities less than the RQ amount are not regulated in transportation.
UN "MODEL REGULATION"	Not regulated

**SECTION 15 - REGULATIONS**

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA

<b>SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES)</b>	
None of the ingredients are listed	

<b>SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS)</b>	
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues
101-68-8	4,4'-methylenediphenyl diisocyanate

<b>TSCA (TOXIC SUBSTANCES CONTROL ACT)</b>
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirement

PROPOSITION 65

<b>CHEMICALS KNOWN TO CAUSE CANCER:</b>
None of the ingredients are listed

<b>CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:</b>
None of the ingredients are listed
<b>CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY IN MALES :</b>
None of the ingredients are listed



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CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:	
None of the ingredients are listed	

### (DSL) CANADA DOMESTIC SUBSTANCE LIST

All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL requirements:

New Jersey Right-to-Know list:	
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues
101-68-8	4,4'-methylenediphenyl diisocyanate

New Jersey Special Hazardous Substance List:	
None of the ingredients are listed	

Pennsylvania Right-to-Know List:	
101-68-8	4,4'-methylenediphenyl diisocyanate

Pennsylvania Special Hazardous Substance List:		
101-68-8	4,4'-methylenediphenyl diisocyanate	E

### CARCINOGENICITY CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY)		
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH)	
None of the ingredients are listed.	

MAK (GERMAN MAXIMUM WORKPLACE CONCENTRATION)		
101-68-8	4,4'-methylenediphenyl diisocyanate	4
9016-87-9	Diphenylmethane diisocyanate, isomers and homologues	4

NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH)	
None of the ingredients are listed.	

### NATIONAL REGULATIONS:

WATER HAZARD CLASS: Water hazard class 1 (self-assessment): slightly hazardous for water.

CHEMICAL SAFETY ASSESSMENT: A chemical Safety Assessment has not been carried out.



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#### SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS	January 23, 2018
REPLACES THE MSDS/SDS FROM	June 30, 2017
PREPARED BY	HSE department
GENERAL INFORMATION	1-888-766-2468
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
OTHER INFO/DISCLAMERS	Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.



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#### SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	IKO Millennium Adhesive PG-1 Pump Grade Two-Part – Part 2 of 2
TRADE NAME	Adhesive
PRODUCT NUMBER	1AD0003
CHEMICAL FAMILY	Mixture
PRODUCT USE	Adhesive
MANUFACTURER/SUPPLIER	BramCal Production Ltd. 305 Rutherford Road Brampton, Ontario L6W 3R5
WEBSITE	<a href="http://www.iko.com">www.iko.com</a>
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

#### SECTION 2 – HAZARD IDENTIFICATION

##### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD WARNING

SYMBOL(S)



CLASSIFICATION Acute Toxicity – Category 4  
Eye Irritation – Category 2A  
Skin Irritation – Category 2

HAZARD STATEMENTS H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin

PRECAUTIONARY STATEMENTS P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical advice/attention.



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P337+P313 If eye irritation persists: Get medical advice/attention.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P362 Take off contaminated clothing and wash before reuse.  
P501 Dispose of contents/container in accordance with local/  
regional/national/international regulations.

NFPA Health: 3  
Flammability: 0  
Instability: 0

HMIS Health: 3  
Flammability: 0  
Physical Hazards: 0

#### SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
tertiary amine	≤ 2.5	82136-26-3
octamethylcyclotetrasiloxane	≤ 0.05	556-67-2

#### ADDITIONAL INFORMATION:

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely.

#### SECTION 4 – FIRST AID

**INHALATION** Supply fresh air or oxygen; call for doctor. In case of unconsciousness, place patient stably in side position for transportation.

**INGESTION** Do not induce vomiting; immediately call for medical help.

**SKIN CONTACT** Immediately wash with water and soap and rinse thoroughly.

**EYE CONTACT** Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

**ACUTE AND CHRONIC SYMPTOMS** Refer to section 11, Toxicological Information, for additional information.

**MEDICAL ATTENTION** Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.



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**SECTION 5 – FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

FIRE FIGHTING Use firefighting measures that suit the environment.

FLAMMABILITY Not applicable.

PROPERTIES:

FLASH POINT No information available.

FLAMMABLE LIMITS IN AIR Lower flammability limit (% vol): 0.9  
Upper flammability limit (% vol): 6.7

AUTO IGNITION TEMPERATURE Product is not self-igniting.

SPECIAL PPE FOR FIRE-FIGHTERS Respiratory protective device.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES Wear protective equipment described in section 8, Exposure Control and Personal Protection. Keep unprotected persons away.

Protective action criteria for chemicals:

PAC-1:		
82136-26-3	tertiary amine	30 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	30 ppm

PAC-2:		
82136-26-3	tertiary amine	330 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	68 ppm

PAC-3:		
82136-26-3	tertiary amine	2,000 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	130 ppm

ENVIRONMENTAL PRECAUTIONS Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

SPILL MANAGEMENT Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.



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### SECTION 7 - HANDLING AND STORAGE

**HANDLING PROCEDURE**      Open and handle receptacle with care. Ensure good ventilation/ exhaust at the workplace. Prevent formation of aerosols.

**STORAGE PRECAUTIONS**      Store away from oxidizing agents. Keep receptacle tightly sealed.

### SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS				
	ALBERTA	ONTARIO	BRITISH COLUMBIA	OSHA	ACGIH
tertiary amine	No information available.				
octamethylcyclotetrasiloxane	No information available.				

**ENGINEERING MEASURES**      Ensure adequate ventilation.

#### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION**      Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

**SKIN AND BODY PROTECTION**      Protective work clothing.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Nitrile rubber (NBR), Chloroprene rubber (CR). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**EYE PROTECTION**      Safety glasses with side shields.

**HYGIENE MEASURES**      Keep away from food, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact





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with the eyes and skin.

OTHER CONTROLS No information available.

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Clear Liquid
ODOR	Mild
ODOR THRESHOLD	No information available.
PH	No information available.
MELTING POINT/FREEZING POINT	No information available.
INITIAL BOILING POINT AND BOILING RANGE	No information available.
FLASH POINT	No information available.
EVAPORATION RATE	No information available.
FLAMMABILITY	Product is not flammable.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower flammability limit (% vol): 0.9 Upper flammability limit (% vol): 6.7  Product does not present an explosion hazard.
VAPOR PRESSURE	No information available
VAPOR DENSITY	No information available
MOLECULAR WEIGHT	No information available
SOLUBILITY(IES)	Not miscible or difficult to mix.
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available
AUTO-IGNITION TEMPERATURE	Product is not self-igniting
SPECIFIC GRAVITY	1 g/cm <sup>3</sup> (8.345 lbs/gal) at 20 °C (68 °F)
VISCOSITY	No information available.



## SAFETY DATA SHEET 1167

### IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART

#### SECTION 10 – STABILITY AND REACTIVITY

##### REACTIVITY

CHEMICAL STABILITY	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	Reacts with oxidizing agents.
CONDITIONS TO AVOID	Heat, flames, sparks. Moisture.
INCOMPATIBLE MATERIALS	Reacts with oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide and tin oxide

#### SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY	No information available.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	No information available.
PRIMARY ROUTE OF EXPOSURE	Skin contact

##### HEALTH EFFECTS

EYES	Irritating effect.
SKIN	Irritant to skin and mucous membranes.
INHALATION	No information available.
INGESTION	No information available.
STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE	No information available.
STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE	No information available.

##### CARCINOGENICITY

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER)
None of the ingredients is listed.



# SAFETY DATA SHEET 1167

## IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART

NTP (NATIONAL TOXICOLOGY PROGRAM)
None of the ingredients is listed.

OSHA-Ca (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION)
None of the ingredients is listed.

### REPRODUCTIVE TOXICITY

DEVELOPMENT OF OFFSPRING      No information available.

SEXUAL FUNCTION AND FERTILITY      No information available.

GERM CELL MUTAGENICITY      No information available.

## SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY      No information available.

PERSISTENCE & DEGRADABILITY      No information available.

BIODEGRADATION MOBILITY      No information available.

BIOACCUMULATION POTENTIAL      No information available.

GENERAL NOTES      Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

## SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS      Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.

## SECTION 14 – TRANSPORT INFORMATION

UN-NUMBER:      Not regulated  
 DOT      Not regulated  
 ADN, IMDG, LATA



**SAFETY DATA SHEET 1167**

**IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART**

UN PROPER SHIPPING NAME:

DOT Not regulated  
ADN, IMDG, LATA Not regulated

TRANSPORT HAZARD

CLASS(ES) :  
DOT CLASS Not regulated  
AND/R CLASS Not regulated

PACKING GROUP:

DOT Not regulated  
IMDG, LATA Not regulated

ENVIRONMENTAL HAZARD Not applicable

SPECIAL PRECAUTIONS FOR USERS Not applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not applicable

UN "MODEL REGULATION" Not regulated

**SECTION 15 - REGULATIONS**

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES)  
None of the ingredients are listed.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS)  
None of the ingredients are listed.

TSCA (TOXIC SUBSTANCES CONTROL ACT)  
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER:  
None of the ingredients are listed.



## SAFETY DATA SHEET 1167

### IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:
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None of the ingredients are listed.
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CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY IN MALES:
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None of the ingredients are listed.
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CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:
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None of the ingredients are listed.
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(DSL) CANADA DOMESTIC SUBSTANCE LIST

All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL requirements:

NEW JERSEY RIGHT-TO-KNOW LIST:
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None of the ingredients are listed.
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NEW JERSEY SPECIAL HAZARDOUS SUBSTANCE LIST:
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None of the ingredients are listed.
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PENNSYLVANIA RIGHT-TO-KNOW LIST:
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None of the ingredients are listed.
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PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE LIST:
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None of the ingredients are listed.
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CANCEROGENITY CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY)
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None of the ingredients are listed.
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TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH)
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None of the ingredients are listed.
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MAK (GERMAN MAXIMUM WORKPLACE CONCENTRATION)
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None of the ingredients are listed.
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NIOSH-Ca (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH)
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None of the ingredients are listed.
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NATIONAL REGULATIONS:

- WATER HAZARD CLASS: Water Hazard class 2 (self-assessment): hazardous for water.
- CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.



## SAFETY DATA SHEET 1167

### IKO MILLENNIUM ADHESIVE PG-1 PUMP GRADE TWO-PART

#### SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS	January 23, 2018
REPLACES THE MSDS/SDS FROM	June 30, 2017
PREPARED BY	HSE department
GENERAL INFORMATION	1-888-766-2468
WEBISTE	<a href="http://www.iko.com">www.iko.com</a>
OTHER INFO/DISCLAMERS	Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.